

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Filled

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

6-9-74

OW

WW

TA

GW

OS

PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E

I

E-I

SR

SR-N

Miefa

Lat

Mi-L

Senie

Others

Druggist & Apothecary

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☒

2. NAME OF OPERATOR

The Anschutz Corporation

3. ADDRESS OF OPERATOR

10 Denver Club Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

3850' FWL, 730' FSL

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.7 miles from I-70 to Location, 46.7 from Thompson.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

730'

16. NO. OF ACRES IN LEASE

640 Ac.

17. NO. OF ACRES ASSIGNED

TO THIS WELL 640 Ac.

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6200'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6055' ground 6063 K. B.

22. APPROX. DATE WORK WILL START*

July 15, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 $\frac{1}{4}$ "	8 5/8"	24#	750'	350
7 7/8"	4 $\frac{1}{2}$ "	9.5#	6200'	200

- Drill 12 $\frac{1}{4}$ " hole to 750' and set 8 5/8" casing.
- Drill to 100' below top of Entrada, or to 6200' to test the Entrada.
- B. O. P. Equipment will be installed before drilling out of surface casing and will be tested daily.
- An IES, GR and CFD log will be run after reaching Total Depth.
- If productive, 4 $\frac{1}{2}$ " casing will be run, perforated and tested.
- Various EXHIBITS, unlabeled except as needed, are enclosed, including the Ten-Point and Multi-Point Programs, access maps, cut-fill on pad, and drill rig-production facilities layout are all included in this report.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. George H. Fentress

Agent Consultant for
Anschutz Corporation

June 8, 1977

SIGNED

TITLE

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (ORIG. SGD.) E. W. GUYNN

TITLE

DISTRICT ENGINEER

DATE

CONDITIONS OF APPROVAL, IF ANY:

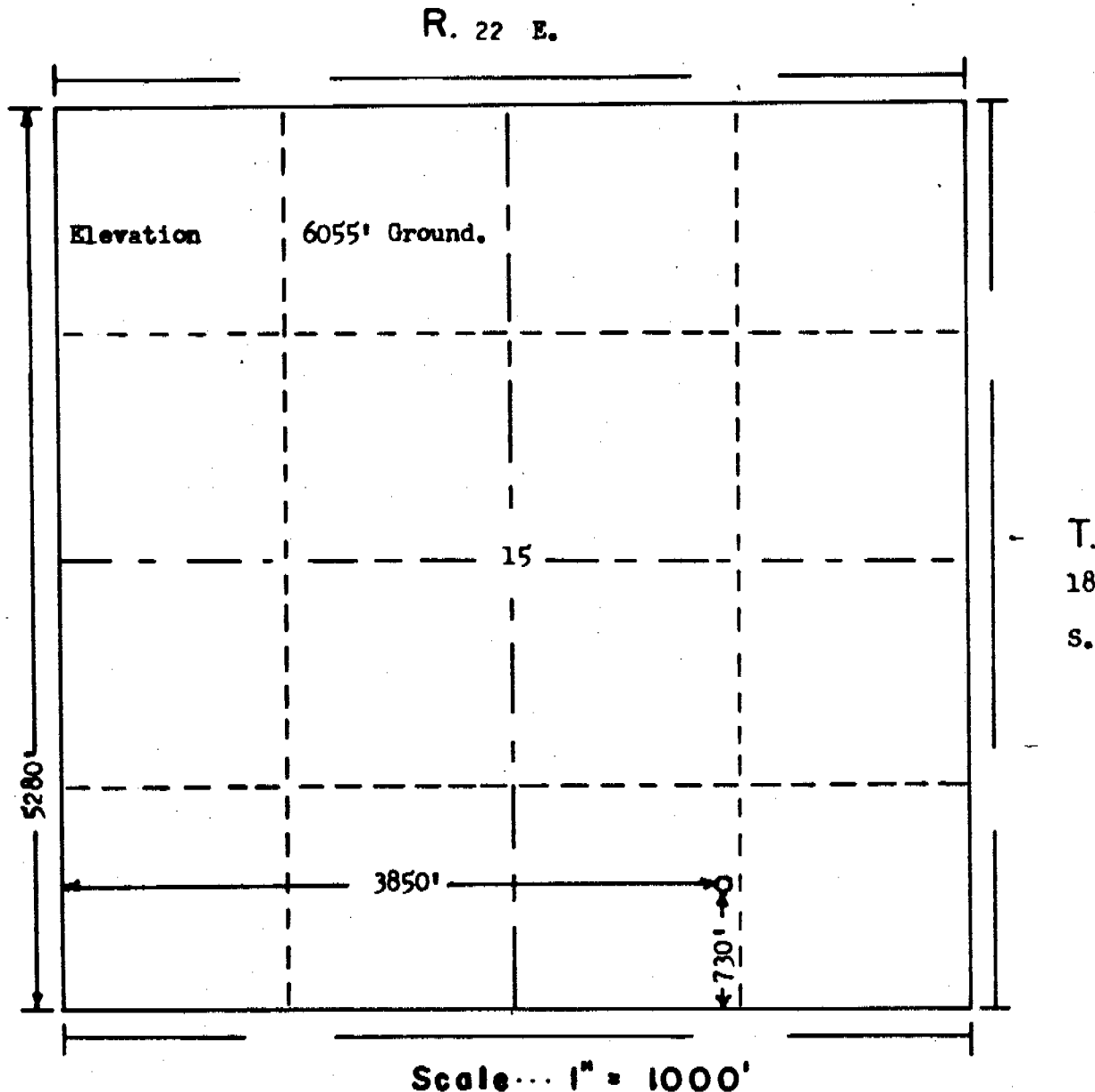
SEP 30 1977

approval note, O & M Bureau, Salt Lake

*See Instructions On Reverse Side



LOCATION - ELEVATION PLAT



Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from George Fentress
for Anschutz Corporation
determined the location of #1 Federal-078
to be 730'FS & 3850'FW Section 15 Township 18 S.
Range 22 E. of the Salt Lake Principal Meridian
Grand County, Utah

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
#1 Federal-078

Date: 5-11-77

T. T. T. T.
Licensed Land Surveyor No. 2711
State of Utah

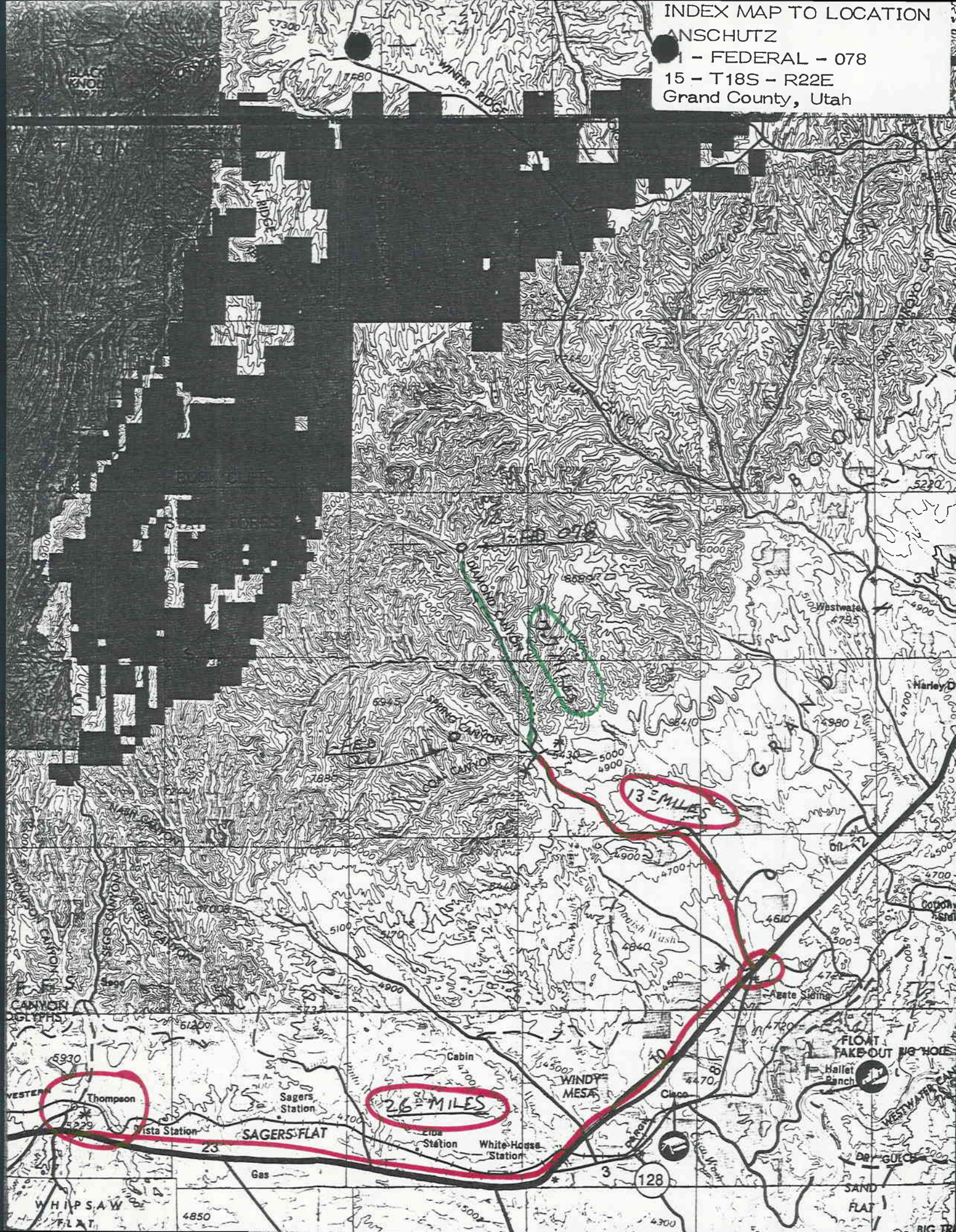
INDEX MAP TO LOCATION

ANSCHUTZ

1 - FEDERAL - 078

15 - T18S - R22E

Grand County, Utah

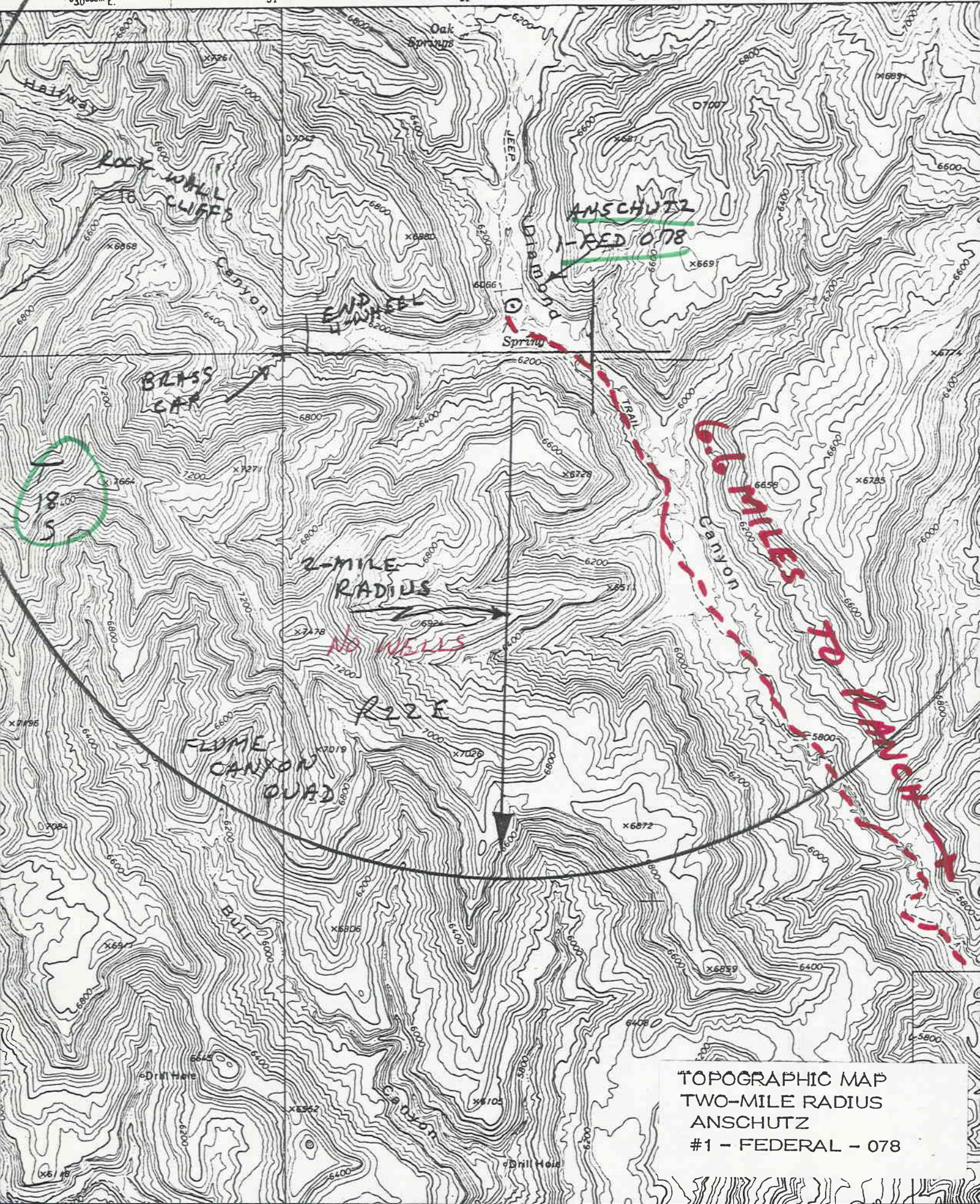


R22E

27°30'

634

(PREAC



TOPOGRAPHIC MAP
TWO-MILE RADIUS
ANSCHUTZ
#1 - FEDERAL - 078

TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
The Anschutz Corporation
#1 Federal - 078
3850' FWL, 730' FSL
Sec. 15 - T18S - R22E
Grand County, Utah

1. The Geologic Surface Formation

The surface is alluvial and colluvial material derived from brown and gray sandstones and siltstones of the Tertiary Wasatch Formation.

2. Estimated Important Geologic Markers

Wasatch	Surface
Castle Gate	1740
Mancos	1805
Dakota	5265
Cedar Mountain	5338
Morrison	5418
Salt Wash	5725
Summerville	6011
Entrada	6070
Estimated Total Depth	6200

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Dakota	5265 gas and/or oil or water
Morrison	5418 gas or water
Entrada	6070 gas

4. The Proposed Casing Program

- (a) Set 750' of 8 5/8" new K-55 24# in 12 1/4" surface hole with 350 sacks cement.
- (b) Set 6200' of 9.5# and new 4 1/2" production casing in a 7 7/8" hole with 200 sacks 50-50 Posmix with 2% gel and 2% CaCl₂.

5. The Operator's Minimum Specifications for Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment planned for use in this well. The BOP's will be

5. The Operator's Minimum Specifications cont'd

hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period. The blind rams and annula preventer will be checked each time pipe is pulled out of the hole. All testings will be recorded in the daily drill sheets. Accessories to BOP's include upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of Proposed Muds

- (a) It is planned that the well will be drilled with air from the base of the surface casing to the total depth. If air is abandoned, then (b) and (c) will be used.
- (b) If air drilling is abandoned, then the hole will be drilled with native muds to 5000'.
- (c) From 5000' to TD the hole will be drilled with Chem-Gel with the mud weighted as necessary for good hole conditions. The water loss will be kept from 8 to 12cc and the viscosity between 35 and 45.

7. The Auxilliary Equipment to be Used

- (a) A kelly cock will be kept in the string at all times.
- (b) A float will be used at the bit at all times.
- (c) A gas detecting device will monitor the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly cock is not in the string.

8. The Testing, Logging, and Coring Programs

- (a) The top 50' of porous zone in the Entrada will be tested, as will all strong, valid shows.
- (b) If air drilled, an induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and sidewall neutron porosity logs will be run at the minimum footage. If the hole is fluid filled, a dual induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and compensated neutron logs will run at the minimum footage.
- (c) No coring is anticipated.

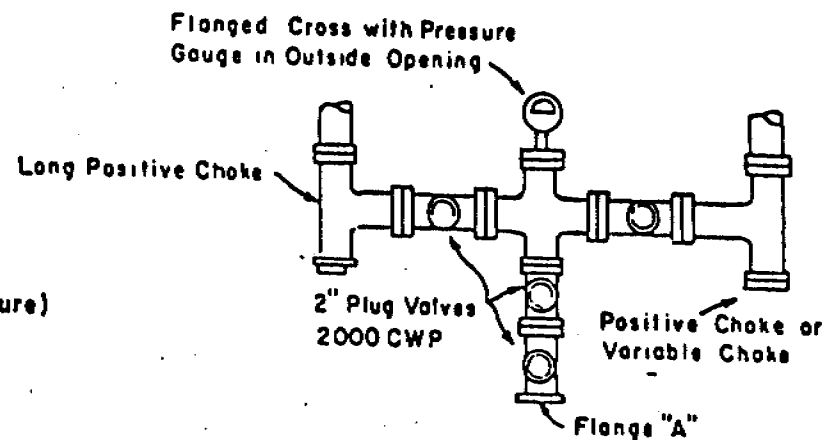
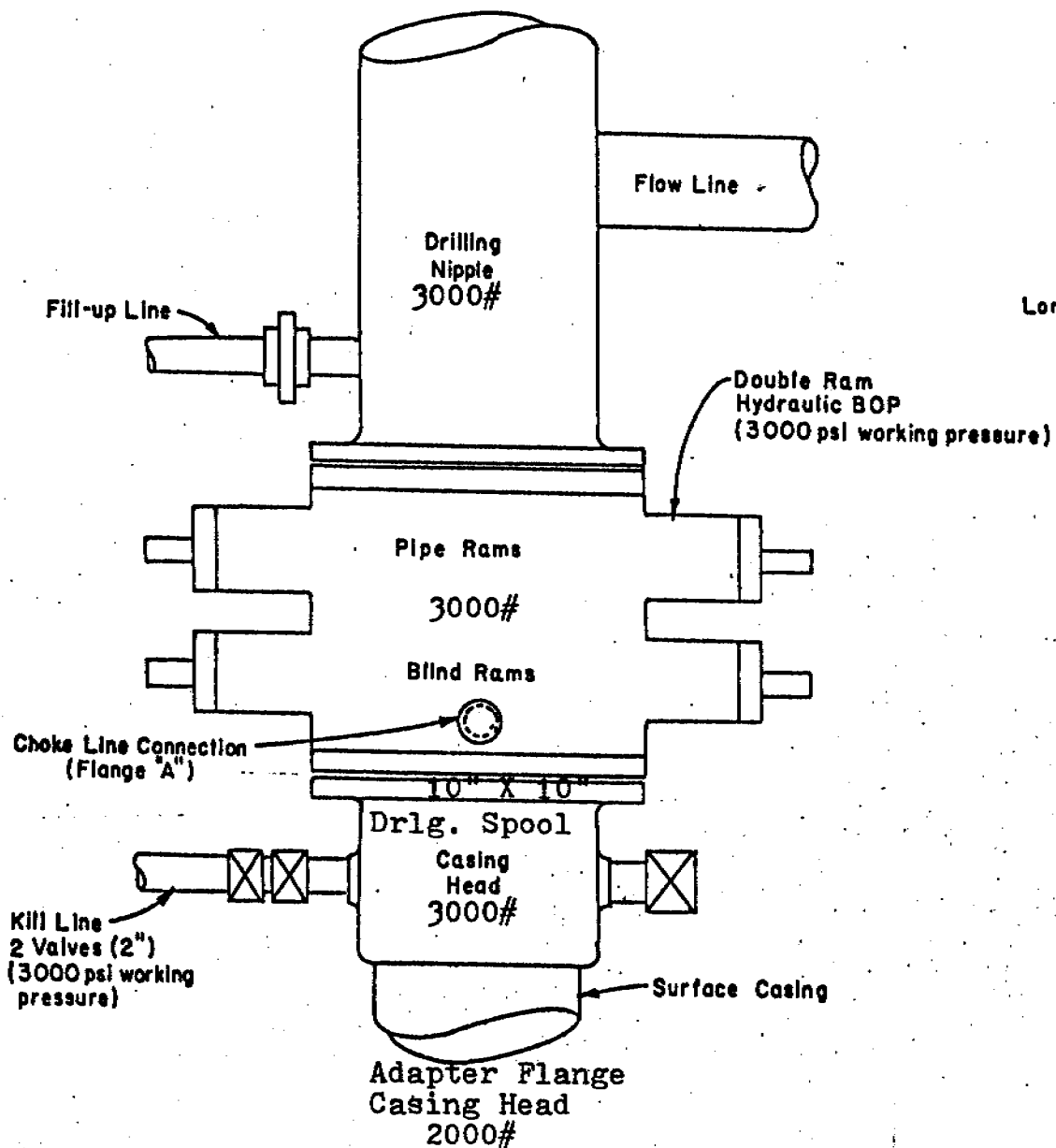
9. Any Anticipated Abnormal Pressures or Temperatures Expected

No abnormal pressures or temperatures have been noted or reported in the wells drilled in this area to these depths. No hydrogen sulphide or other hazardous gases or fluids have been found reported or known to exist at these depths in this area.

10. The Anticipated Starting Date and Duration of Operations

The anticipated starting date is set for July 15, 1977, or as soon as possible after examination of the surface and approval of all drilling requirements.

The operations should be completed within 20 days after spudding the well and drilling to the casing point.



PLAN VIEW-CHOKE MANIFOLD

THE ANSCHUTZ CORPORATION
 #1 Federal - 078
 Sec. 15, T18S - R22E
 Grand County, Utah
 BLOWOUT PREVENTER
 DIAGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331C
The Anschutz Corporation
#1 - Federal - 078
3850' FWL, 730' FSL
Sec. 15, T18S - R22E
Grand County, Utah

1. Existing Roads

- A. The proposed well site as staked by Powers Elevation Service, and the ground elevation is shown thereon.
- B. Attached is a color coded route map prepared from the Southeastern Central Utah Map No. 2 of the Utah Travel Council. One travels 26 miles on I-70 from Thompson, Utah to the East Cisco exit, then 13 miles north on gravel and dirt road to the junction of Diamond Canyon, Cottonwood Canyon and Spring Canyon. The first road to the right past this junction passes northward to some ranch buildings. Four wheel drive vehicles will be needed past the ranch houses for 6.6 miles up Diamond Canyon to location.
- C. Attached is an exhibit as prepared from the 7 1/2' U.S.G.S. Flume Canyon Topographic Quadrangle. The red color shows the existing trail to location. The small scale map is color-coded in green for the 6.6 miles of trail requiring construction.
- D. This is an exploratory well and all known existing roads in the area that could be found are shown on the maps.
- E. This is not a development well.
- F. There is no plan to improve or maintain existing roads.

2. Planned Access Roads

- (1) The width of the 6.6 miles of trail past the ranch buildings need not exceed 16 feet.
- (2), (3), (4) Maximum grade will be about 1%. There will probably be no need for turnouts. Whether dry or productive, some nine culverts will be needed where water runs, while four creek crossings are dry.
- (5) 18" culverts will be satisfactory to criss-cross the dry wash. No major cut or fill is anticipated for the construction of the access road.
- (6) No surfacing materials will be needed unless production is obtained, in which case local stream gravel can be used.
- (7) One gate, or cattleguard, will be needed west of the ranch house to protect livestock movement.
- (8) No center line flagging is believed necessary as there is only one way up the Canyon to the location.

3. Location of Existing Wells

This is an exploratory well. There have been no wells drilled in a two-mile radius.

- (1), (2), (3), (4), (5), (6), (7), (8), (9) There are no known water wells, dry holes, temporarily abandoned, disposal or drilling wells in the area as well as no producing, shut-in, injection or observation wells.

4. Location of Existing and/or Proposed Facilities

- A. There are no existing facilities owned or controlled by operator within a 1 mile radius of the location.
- B. (1) Exhibit "H" shows all anticipated drilling and production facilities. All is planned for the well producing gas only.
 - (2) The dimensions of the facilities shown on Exhibit "H" are roughly drawn to a scale of 1 inch = 50 feet.
 - (3) No materials other than that available on location are anticipated to be needed for construction.

4. Location of Existing and/or Proposed Facilities cont'd

(4) Rehabilitation, whether the well is productive or dry, will be made on unused areas as soon as possible in accordance with plans drafted in Item 10 following. No water production is anticipated which would require flagging.

C. See Item 10 that follows for restoration plans.

5. Water Supply

A. It is anticipated that the well will be drilled with air to T.D. However, if necessary, water may be obtained for drilling purposes by constructing a shallow backwater pool in the small perennial streams found in Diamond Canyon. No new roads will have to be constructed for access to water. The construction of the pool and the accompanying requirements in terms of permission will be left up to the drilling contractor.

B. Transportation of any water used will be by trucks on existing roads or by pipeline.

C. No water well will be drilled.

6. Construction Materials

A., B., C., D. No construction materials are needed for drilling operations. The sand, gravel and rock located in the immediate area are adequate for any construction necessary in connection with either a dry or producing well. There is no Indian land. The access route for crossing Federal land has been applied for by Tramway Permit on Form 2800-6

7. Handling Waste Disposals

(1) Drill cuttings will be buried in the reserve pit when covered.

(2) Drilling fluids will also be handled in the reserve pit.

(3) Any fluids produced while drilling, drill stem testing, producing or other testing will be collected in a test tank set near the pipe baskets or near the well head or into the pits by a Blouie line so oriented to not damage pit walls or surrounding environment. Any unavoidable spills of oil or other adverse substances or materials will be covered or removed immediately during drilling progress or during completion operations.

7. Handling Waste Disposals Cont'd

- (4) Any sewage will be covered or removed.
- (5) Garbage, wastes and non-flammable wastes, salts and other chemicals produced or used during drilling or testing will be handled in the reserve pit or kept in the trash or burn pit. The trash or burn pit will be covered with small wire mesh to prevent scattering.
- (6) The reserve pit, if mud is used, will be fenced on three sides during drilling operations, and iron or other posts and wire fencing will be available on location immediately upon cessation of drilling and the fourth side of the reserve pit will be fenced prior to full removal of the rig from the location. Any other dangerous or harmful pits or sewage areas will also be fenced or covered at the time rig moves off location.

8. Ancillary Facilities

No airstrips, camps, or other living facilities will be built or needed.

9. Well Site Layout

- (1) Exhibit "G" is the drill pad layout as staked by Powers Elevation Company. Elevation contours have been drawn on the plat. The cut-fill cross section A-A' has been drawn from these contours. The placement of the 6 inch surface soil banks are also shown on this plat.
- (2) The mud tanks, pits, rig orientation, etc. is shown on Exhibit "H". If the well is drilled by air, these facilities may change accordingly.
- (3) Exhibit "H" also shows rig orientation parking and road in to drill pad. The orientation may be moved somewhat to parallel the stream.
- (4) The reserve pit will not be lined. Steel mud pits, if used, will be shown in Exhibit "H".

10. Plans for Restoration

- (1) Backfilling, leveling and contouring will be accomplished as soon as possible after plugging of the well, or immediately on those areas unused if production is obtained. Waste

10. Plans for Restoration Cont'd

- disposal and spills materials will be buried or hauled away immediately before rig moves off location.
- (2) Rehabilitation will be accomplished by spreading the banked topsoil over the area and contouring the banks. Revegetation will be accomplished using grasses or mixtures best suited for the dry, arid conditions encountered here. The access road will be revegetated as needed, but it may be preserved for continued use as local access by the rancher.
 - (3) Prior to rig release, the fourth side of the reserve pit will be fenced and maintained until clean up operations are finished.
 - (4) Any oil or spills will be immediately cleaned up or flagged.
 - (5) Rehabilitation operations will commence as soon as the rig moves off location. However, revegetation will be in the fall of 1977 for optimum growth potential.

11. Other Information

- (1) The location is situated in the midst of the Book Cliffs. Long, narrow canyons, the majority of which carry only intermittent stream flow, form the chief topographic features. This area receives very little annual precipitation, but is nevertheless subject to flash flooding. The canyon bottoms are predominantly alluvial or colluvial material consisting of poorly sorted boulders, gravel and sand. The soil, such as it is, is formed from this material and is primarily derived from the Tertiary Wasatch. The Wasatch formation is principally a brown and gray sandstone and siltstone. Refer to Item 1 of the Ten-Point program.

The very scarce flora consists of sagebrush and sparse grass, about 10% vegetation cover, primarily because a fire two years ago wiped it all out. Pine is observed at the higher elevations and grasses everywhere are sparse. The remaining exposed soils material is highly erodible. The observed animal population is domesticated sheep and cattle and a few deer and rabbits. Other wildlife indigenous to a rugged semiarid environment is presumed to exist. No endangered species were seen.

11. Other Information Cont'd

- (2) Grazing is the only observed surface use in this area. The surface ownership of the location is entirely Federal, and access across private lands on existing roads has already been approved by the landowner.
- (3) Water, if needed if air drilling is discontinued, poses no problem. There are no occupied dwellings noted, nor are there any observable archaeological, historical or cultural sites in this area. It is doubtful that any such sites could survive unattended in this narrow, deep canyon due to its susceptibility to flooding. An archaeological examination of this area is presently in process.

The commencement of this well is planned for approximately August 1, 1977 and should drill to the casing point in 20 days or less.

12. Lessee's or Operators Representative

Mr. George H. Fentress
Environmental Engineering Co.
Agent Consultant for The
Anschutz Corporation
1645 Court Place, #229
Denver, Colorado 80202

Phone: (303) 825-0561
Res: (303) 279-4880

Mr. Wayne Pierce
The Anschutz Corporation, Inc.
1110 Denver Club Building
Denver, Colorado 80202

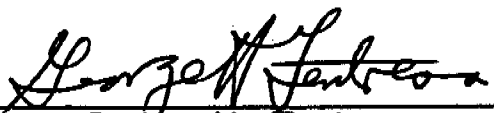
Phone: (303) 573-5665
Res: (303)

13. Certification

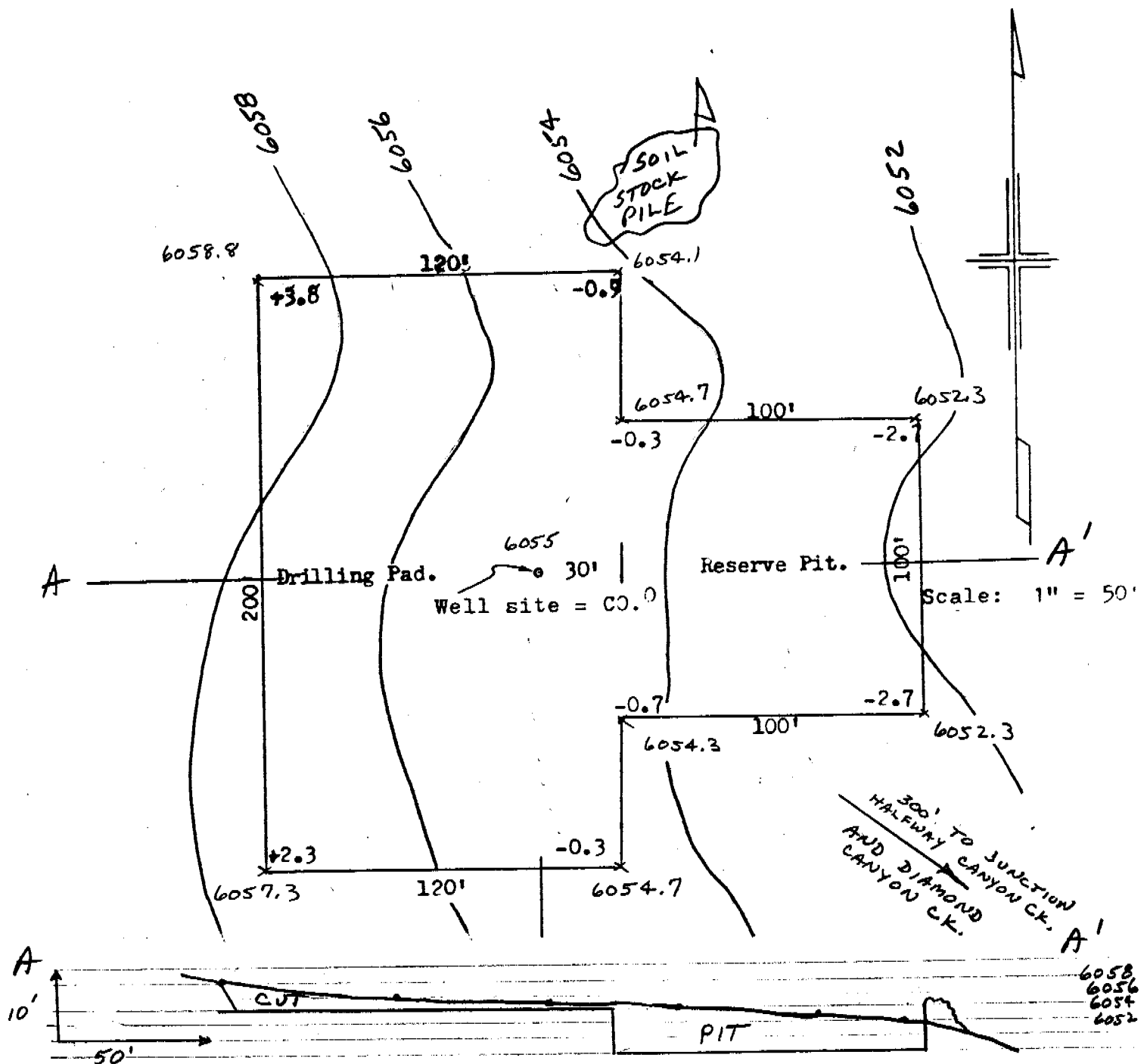
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by The Anschutz Corporation, Inc. and its contractors and sub-contractors in conformity with this plan and their terms and conditions under which it is approved.

Date

June 9, 1977


Name: George H. Fentress
Title: Agent Consultant for
The Anschutz Corporation

Anschutz Corporation
#1 Federal-078
730'FS & 3850'FW Sec 15-18S-22E.
Grand County, Wyoming.



CUT-FILL
CROSS-SECTION
CUT TO 6054'

by: Leonard Chisner
Powers Elevation Company, Inc.

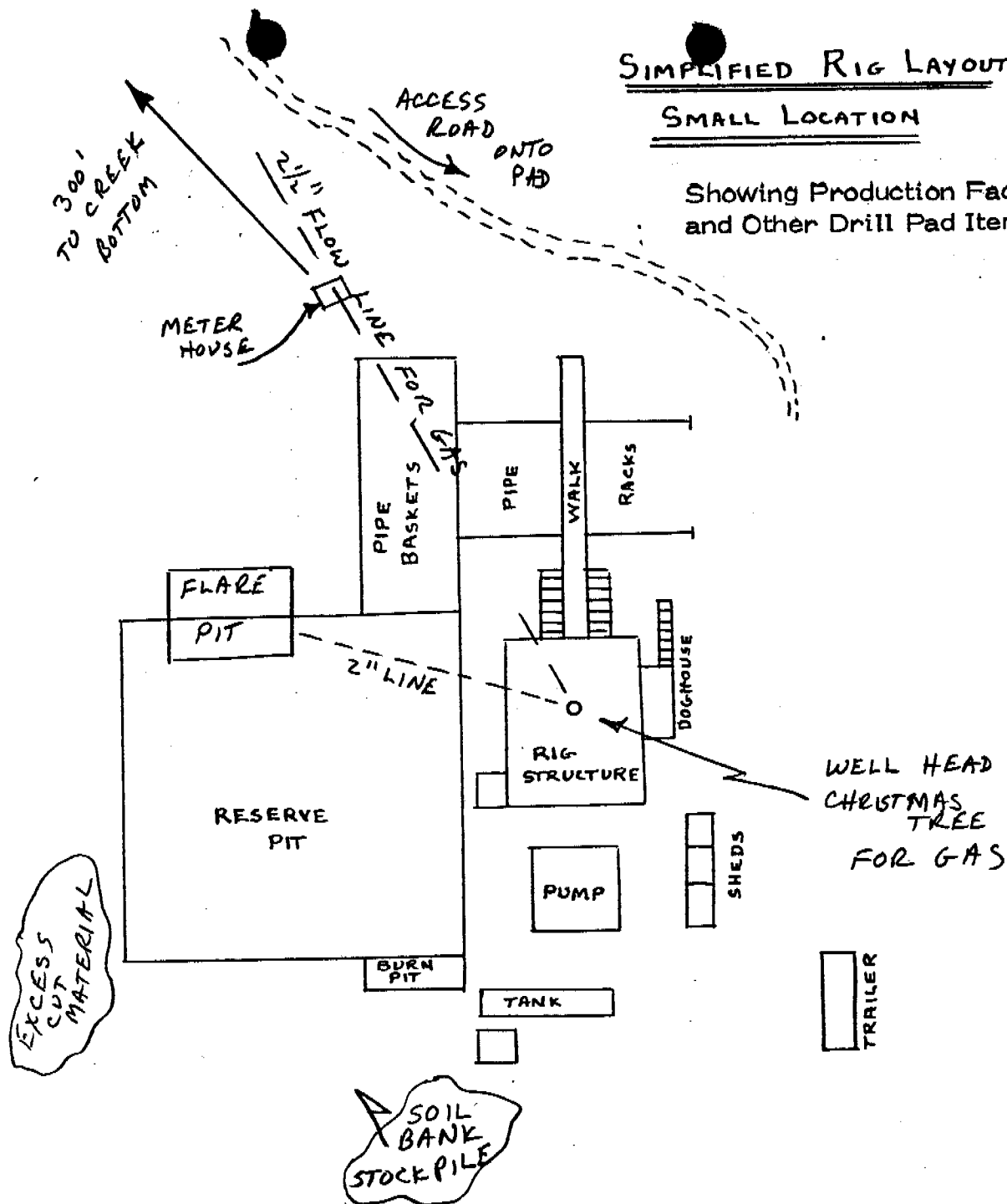
SOUTH

NORTH

SIMPLIFIED RIG LAYOUT

SMALL LOCATION

Showing Production Facilities
and Other Drill Pad Items



ESTIMATE 8-MILES GAS
LINE LAID ON SURFACE (NOT BURIED)
TO NORTHWEST GAS PIPELINE

ANSCHUTZ

#1-FEDERAL-078

15-185-22E



ENVIRONMENTAL ENGINEERING COMPANY

Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

June 9, 1977

Mr. Edgar W. Gynn,
District Engineer
U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

*OK on Topo
except for*
fo

Re: Filing NTL-6 and APD
for 9-331C
The Anschutz Corporation
#1 Federal - 078 -
3850' FWL, 730' FSL
Sec. 15, T 18 S - R 22 E
Grand County, Utah

Dear Mr. Gynn:

Enclosed are three copies of the above filing. Two copies are for the U. S. G. S. and one copy is for the B. L. M. Would you please forward the report to the B. L. M. and advise us when it is most convenient to make a ground inspection.

An archaeological inspection and report is presently being prepared. A Tramway permit is being forwarded to the B. L. M. in Moab, as they request when crossing one federal lease to another federal lease.

Very truly yours,

George H. Fentress
George H. Fentress
Agent Consultant for
The Anschutz Corporation

/lkb
cc: Wayne Pierce, Anschutz



STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date:

June 15-

Operator:

Amschutz Corp.

Well No:

#1 Fed. 078

Location:

Sec. 15 T. 18S R. 22E County:

Grand

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

CHECKED BY:

Administrative Assistant

Remarks:

No other wells in Sec. 15 -

Petroleum Engineer

Remarks:

OK

Director

Remarks:

7

INCLUDE WITHIN APPROVAL LETTER:

Bond Required

OK

Survey Plat Required

☐

Order No.

☐

Surface Casing Change
to

☐

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☒

O.K. Rule C-3

☐

O.K. In

Unit ☐

Other:

Request
Unit Agreement

☒ Letter Written/Approved

June 15, 1977

The Anschutz Corporation
c/o George Fentress
Box 113
Wheat Ridge, Colorado

Re: ~~Well~~ No's:
#1 Federal 078,
Sec. 15, T. 18 S, R. 22 E,
#1 Federal 261,
Sec. 15, T. 19 S, R. 22 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, it is requested that a copy of the Diamond Canyon Unit Agreement be submitted to this Division at your earliest convenience, an unexecuted copy will suffice.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are:

#1 Fed. 078 - 43-019-30371 #1 Fed. 261 - 43-019- 30372

Very truly yours,

CLEON B. FEIGHT, Director

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
ANSCHUTZ CORPORATION #1 FEDERAL 078	3850' FWL > 730' FSL (SW $\frac{1}{4}$ SE $\frac{1}{4}$) SEC. 15, T. 18S, R. 22E, SLM GRAND CO. UTAH GR. EL. 6055'	U-14078
<p>1. Stratigraphy and Potential Oil and Gas Horizons. Alluvial and colluvial material (weathered Wasatch) overlies Wasatch bedrock at this location. The operator plans to test the Dakota, Morrison and Entrada Formations for oil and gas. Estimated logs by operator are reasonable.</p> <p>2. Fresh Water Sands. Usable water may be found in the sands of the Wasatch Fm. and Mesaverde. Deeper aquifers such as the Dakota probably will contain saline water or brine.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Land is considered valuable prospectively for coal found in the Nealen member (Chesterfield and Palisade coal zones) of the Price River Formation (Mesaverde). The Nealen member underlies the Farrer member and overlies the Segoe member of the Price River. Coals are probably thin in this area.</p> <p>4. Possible Lost Circulation Zones. Sandstone of the Price River Formation. The Segoe sandstone overlies the Castle Gate sandstone. <i>Unknown.</i></p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Protect any fresh water aquifers penetrated.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. <i>Unknown</i></p> <p>7. Competency of Beds at Proposed Casing Setting Points. Alluvial and colluvial material will be cased off.</p> <p>8. Additional Logs or Samples Needed. Sufficient logs to identify important coals of the Price River Formation and any fresh water aquifers penetrated.</p> <p>9. References and Remarks Within 2 mile radius of KGS.</p>		
<p>Date: 6-23-77 Signed: REG.</p>		

DATE 7/5/22

Cons.
P. 11.

	Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
	Roads, bridges, airports Transmission lines, pipelines Dams & impoundments Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal Liquid effluent discharge Subsurface disposal Others (toxic gases, noxious gas, etc.)	Well drilling Fluid removal (Prod. wells, facilities) Secondary Recovery Noise or obstruction of scenic views Mineral processing (ext. facilities) Others	Trucks Pipelines Others	Spills and leaks Operational failure	
10/17	/ /	/ /	/	/	/ /	
10/18	/ /	/ /	/	/	/ /	
10/19	/ /	/ /	/	/	/ /	
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11/16	/ /	/ /	/	/	/ /	
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11/29	/ /	/ /	/	/	/ /	
11/30	/ /	/ /	/	/	/ /	
12/1	/ /	/ /	/	/	/ /	
12/2	/ /	/ /	/	/	/ /	
12/3	/ /	/ /	/	/	/ /	
12/4	/ /	/ /	/	/	/ /	
12/5	/ /	/ /	/	/	/ /	
12/6	/ /	/ /	/	/	/ /	
12/7	/ /	/ /	/	/	/ /	
12/8	/ /	/ /	/	/	/ /	
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12/27	/ /	/ /	/	/	/ /	
12/28	/ /	/ /	/	/	/ /	
12/29	/ /	/ /	/	/	/ /	
12/30	/ /	/ /	/	/	/ /	
12/31	/ /	/ /	/	/	/ /	

LEASE U-14078 DATE 7/5/77WELL NO. #1 Federal 078LOCATION: SW 1/4 SE 1/4, SEC. 15, T. 18S, R. 22EFIELD Wild Cat COUNTY Grand STATE Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

I. PROPOSED ACTION

Anschutz Corporation PROPOSES TO DRILL AN OIL AND
(COMPANY)
GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 6200 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 120 FT. X 200 FT. AND A RESERVE PIT 100 FT. X 100 FT.3) TO CONSTRUCT FT. WIDE X MILES ACCESS ROAD AND UPGRADE 16FT. WIDE X 6.6 MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD, TO CONSTRUCT☒ GAS ☐ OIL PRODUCTION FACILITIES ON THE DISTURBED AREA FOR THE DRILL PADAND ☐ TRUCK ☐ TRANSPORT THE PRODUCTION THROUGH A PIPELINE TO A TIE-IN INSECTION , T. , R.

2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENTAL SITUATION).

(1) TOPOGRAPHY: ☐ ROLLING HILLS ☐ DISSECTED TOPOGRAPHY ☐ DESSERT
OR PLAINS ☒ STEEP CANYON SIDES ☒ NARROW CANYON FLOORS ☒ DEEP DRAINAGE
IN AREA ☒ SURFACE WATER

(2) VEGETATION: ☒ SAGEBRUSH ☐ PINION-JUNIPER ☐ PINE/FIR ☐ FARMLAND
(CULTIVATED) ☒ NATIVE GRASSES ☒ OTHER Native brush

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS ACTION.

3) LOCATION WAS MOVED _____ TO AVOID _____
☐ LARGE SIDEHILL CUTS ☐ NATURAL DRAINAGE ☐ OTHER _____

4) _____

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

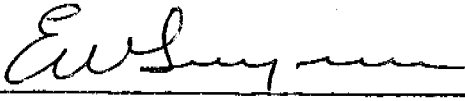
6) _____

6. DETERMINATION:

(THIS REQUESTED ACTION ~~DOES~~ (DOES NOT) CONSTITUTE A MAJOR
FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE
SENSE OF NEPA, SECTION 102(2) (C).

DATE INSPECTED 8-13-75

INSPECTOR A. R. Cook


U. S. GEOLOGICAL SURVEY
CONSERVATION DIVISION - OIL & GAS OPERATIONS
SALT LAKE CITY DISTRICT

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling well in Progress</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>U-14078</u>
2. NAME OF OPERATOR <u>THE ANSCHUTZ CORPORATION</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR <u>1110 Denver Club Building, Denver Colorado 80202</u>		7. UNIT AGREEMENT NAME <u>Diamond Canyon Unit</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>3850' FWL & 730' FSL</u>		8. FARM OR LEASE NAME <u>Federal 078</u>
14. PERMIT NO.		9. WELL NO. <u>1</u>
15. ELEVATIONS (Show whether DF, RT, OR, etc.) <u>6055' GL</u>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA <u>15-T18S-R22E</u>
		12. COUNTY OR PARISH <u>Grand</u>
		13. STATE <u>Utah</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) Revise casing programPULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

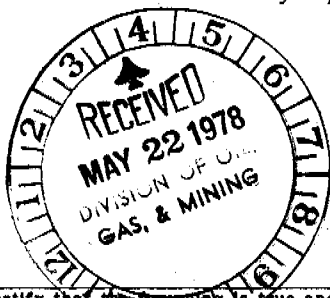
WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In lieu of the casing and cementing program submitted on the Application to Drill dated 6-8-77 and subsequently approved on 9-30-77, we propose the following changes:

1. Set 9-5/8" 36# surface casing at 112' and circulate cement to surface.
2. Set 7" 23# intermediate casing @ 2760' (top of Mancos) and cement with 200 sx or sufficient volume of cement to bring cement top 150' above the Buck Tongue sandstone. The approximate top of cement will be 2100'.
3. If well is productive, 4 1/2" 9.5# production casing will be set and cemented as previously set forth on Application To Drill.
(The above was verbally approved by Mr. Ed Guynn U.S.G.S. - Salt Lake City 5-18-78)



APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: May 22, 1978

BY: P. H. Dinsell

18. I hereby certify that the foregoing is true and correct

SIGNED Wayne C. Pierce

TITLE Operations Manager

DATE May 18, 1978

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT TO BUREAU
(See other instructions on reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

The Anschutz Corporation

3. ADDRESS OF OPERATOR

1110 Denver Club Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

At top prod. interval reported below 3850' FWL + 730' FSL

At total depth

14. API NO.

43-019-30371

DATE ISSUED

6-15-77

15. DATE SPUDDED

5-8-78

16. DATE T.D. REACHED

6-9-78

17. DATE COMPL. (Ready to prod.)

P&A 6-9-78

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6055 GL

6064 KB

19. ELEV. CASINGHEAD

6055

20. TOTAL DEPTH, MD & TVD

7030

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Surface-TD

None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

NONE

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL - GR, CNL-FDC-GR

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	112	12 1/2	65sks circulated	None
7	23	2760	8-3/4	75sks est. top 2100'	1056'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.*

PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED 24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Peter B. Doty

TITLE

Operations Coordinator

DATE

7-19-78

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VEET. DEPTH
Dakota	6192	6342	Sand + Shale - Wet	Wasatch	Sur	+6055
Morrison	6342	6628	Tite Sands + Shale	Mesaverde	350	+5705
Salt Wash	6628	6950	Tite Sands + Shale	Mancos	2710 Est.	+3345
Entrada	6950	TD	Wet	Dakota	6192	- 137
				Morrison	6342	- 287
				Salt Wash	6628	- 573
				Entrada	6950	- 895
				TD	7030	- 975

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-14078	
2. NAME OF OPERATOR The Anschutz Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1110 Denver Club Bldg., Denver, Colorado 80202		7. UNIT AGREEMENT NAME Diamond Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3850' FWL + 730' FSL		8. FARM OR LEASE NAME Federal 078	
14. API NO. 43-019-30371		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6055GL 6064KB		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA Sec. 15, T18S, R22E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was drilled to a T.D. of 7030' MD in the Entrada Formation. Electric logs were run to total depth. No potential pay zones were indicated on the logs. No cores were taken. This well has been abandoned with plugs set as follows:

Depth	Cement
6954 - 6800	30 sks
6641 - 6500	25 sks
6172 - 6015	40 sks
2823 - 2723	20 sks
1066 - 966	35 sks
175 - 90	30 sks
Surface	10 sks

Abandonment of this well was verbally approved by E.W. Guynn on June 9, 1978.

Rehabilitation of this location is scheduled to begin in August.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Peter B. Doty</u>	TITLE <u>Operations Coordinator</u>	DATE <u>7-19-78</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		



2400 ANACONDA TOWER • 555 SEVENTEENTH STREET • DENVER, COLORADO 80202 • 303-825-6100

October 3, 1978

Mr. Edgar Guynn
District Engineer
U. S. Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Re: Federal 078 No. 1
Sec. 15, T.18S-R.22E
Grand County, Utah

Dear Mr. Guynn:

Enclosed please find a Sundry Notice describing restoration of the referenced location submitted in triplicate.

As always, if you have any questions, please do not hesitate to contact us.

Thank you.

Cordially,

Peter B. Doty
Production Coordinator

PBD/mle
Enclosures:

cc: Utah O & G Commission

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-14078
2. NAME OF OPERATOR The Anschutz Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 555-17th Street, 2400 Anaconda Tower, Denver, Colo. 80202		7. UNIT AGREEMENT NAME Diamond Canyon
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3850' FWL, & 730 FSL		8. FARM OR LEASE NAME Federal 078
14. PERMIT NO. API 43-019-30371		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6055 GL, 6064 KB		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T.18S-R.22E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Restoration <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Restoring of this location has been completed. Seeding of the location was completed on October 2, 1978. The access road has been upgraded and both are ready for inspection. Restoration work is complete pending approval.

18. I hereby certify that the foregoing is true and correct

SIGNED Peter B. Doty

TITLE Production Coordinator

DATE October 3, 1978

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: